



CURRENT FISHERIES STATISTICS NO. 8301

MF-1

Canned Fishery Products, ANNUAL SUMMARY 1982

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National Marine Fisheries Service
2570 Dole Street
Honolulu, Hawaii

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Source of data:—Since 1921, the National Marine Fisheries Service of the National Oceanic and Atmospheric Administration and its predecessor organizations have made annual surveys for statistics on the domestic production of canned fishery products. The data collected include statistics on the production and value of each canned commodity by can size and trade classification. The value shown for the products constitutes the gross amount received by the producer at the production point; no deductions are made for commissions or expenses. Statistics on the Alaska canned pack were furnished by the Alaska Department of Fish and Game.

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OF COMMERCE

National Oceanic and
Atmospheric Administration

National Marine
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REVIEW

Canned Fishery Products. The pack of canned fishery products in the 50 States, American Samoa, and Puerto Rico was 46.2 million standard cases (1.3 billion pounds) valued at \$1.5 billion – decreases of 7.8 million standard cases (204.4 million pounds) and \$519.6 million compared with the 1981 pack. The 1982 pack included 37.7 million standard cases (883.3 million pounds) valued at \$1.4 billion for human consumption, and 8.5 million standard cases (407.2 million pounds) valued at \$132.0 million for bait and animal food. The packs of herring and herring specialties, jack and Pacific mackerel, fish roe and caviar, tuna specialties, clams and clam products, clam specialties, the natural pack of oysters, oyster specialties, lobster meat and specialties, together with unclassified fish and shellfish specialties increased in 1982, while most of the remaining packs declined.

Canned Salmon. The U.S. pack of natural Pacific salmon was 2.5 million standard cases (120.3 million pounds) valued at \$199.0 million, compared with 4.6 million standard cases (221.3 million pounds) valued at \$422.7 million packed one year earlier. Alaskan salmon plants accounted for more than 97 percent of the quantity and 96 percent of the value of the 1982 pack. Alaskan salmon fishermen landed almost 110 million fish in 1982, fewer than predicted, but enough to make the 1982 season the sixth largest in the history of the fishery. Price negotiations curtailed landings in some areas, and a record pink run in Norton Sound went almost unfished because of low prices.

Canned Sardines. The pack of Maine sardines (sea herring) was only 669,228 standard cases valued at \$24.6 million, declines of 961,721 standard cases (59 percent) and \$30.3 million (55 percent) compared with the 1981 pack. An additional pack of herring and herring specialties of 89,410 standard cases valued at \$7.1 million was packed in 1982 – 3,602 standard cases (4 percent) and \$826,000 (13 percent) more than the 1981 pack.

Canned Tuna. The U.S. pack of tuna was 27.1 million standard cases (538.5 million pounds) valued at \$918.4 million. This was 4.7 million standard cases (15 percent), 88.5 million pounds (14 percent), and \$261.7 million (22 percent) less than the 1981 pack. The pack of albacore (white meat) tuna was 6.0 million standard cases – 194,248 standard cases (3 percent) more than the 5.8 million standard cases produced in 1981. Albacore was 22 percent of the tuna pack in 1982. Lightmeat tuna (bigeye, bluefin, skipjack, and yellowfin) comprised the remainder with a pack of 21.1 million standard cases – 4.9 million standard cases (19 percent) less than the 25.9 million standard cases packed in 1981. Plants in the continental United States packed 38 percent of the total, the remaining 62 percent was packed in plants in American Samoa, Hawaii, and Puerto Rico. About 31 percent of the total U.S. supply of canned tuna was packed from U.S. caught fish, and 55 percent from imported fish. Imports of canned tuna made up the remaining 14 percent.

Canned Clams. The U.S. pack of clams (whole, minced, chowder, and juice) set records in quantity and value when 3.8 million standard cases valued at \$85.2 million was packed – 616,407 standard cases (19 percent) and \$12.8 million (18 percent) more than the pack in 1981. The pack of whole and minced clams of 1.1 million standard cases was 481,739 standard cases (80 percent) more than the 1981 pack and accounted for 28 percent of the total clam pack in 1982. Clam chowder and clam juice (2.8 million standard cases) made up the remaining 1982 pack.

Canned Shrimp. The U.S. pack of natural shrimp was 1.2 million standard cases valued at \$45.0 million, 652,705 standard cases (36 percent) and \$13.9 million (24 percent) less than the 1981 pack. Plants in Louisiana and Mississippi packed 704,743 standard cases, 366,032 standard cases (34 percent) less than the pack the previous year. The pack produced by plants in the Pacific coast region declined from 757,621 standard cases in 1981 to only 470,948 standard cases in 1982.

Other Canned Items. The U.S. pack of mackerel (principally jack) was 871,500 standard cases valued at \$14.9 million in 1982, 68,594 standard cases (8 percent) and \$2.6 million (21 percent) more than the previous year. The pack of tunalike fish (bonito) was 83,465 standard cases valued at \$2.1 million, compared with 271,796 standard cases, valued at \$6.4 million, produced in 1981. The natural pack of oysters nearly doubled when 116,233 standard cases valued at \$2.2 million were packed compared to the 63,059 standard cases valued at \$1.2 million packed in 1981. The pack of petfood (10 pounds of fish per standard case of 48 one-pounds cans) was 8.5 million standard cases valued at \$130.0 million, a decrease of 19,992 standard cases and \$2.1 million compared with the pack in 1981. Tuna, the mainstay of the pet food industry, represented 42 percent of the 1982 pack, compared with 41 percent in 1981.

SUMMARY OF PRODUCTION, BY PRODUCTS, 1982

Products	Plants	Production			
	Number	Pounds per case	Standard cases	Thousand pounds	Thousand dollars
For human consumption:					
Fish:					
Gefiltefish.	4	48	277,631	13,326	14,334
Herring and herring specialties	9	48	89,410	4,292	7,146
Mackerel, jack and Pacific	4	45	871,500	39,218	14,919
Roe and caviar.	5	48	8,870	426	1,673
Salmon:					
Natural	82	48	2,506,787	120,326	199,013
Smoked, paste, smoked paste, and in sauce. . .	20	48	2,491	120	688
Sardines, Maine	12	23.4	669,228	15,660	24,620
Sturgeon, smoked.	9	48	346	17	109
Tuna:					
Solid	19	21	7,022,926	147,481	310,669
Chunk	15	19.5	19,907,659	388,199	603,973
Flakes and grated.	9	18	156,856	2,823	3,804
Total tuna (1)	20	-	27,087,441	538,503	918,446
In sauces, smoked, spreads, and with noodles .	9	48	28,090	1,348	1,478
Tunalike fish (bonito)	3	21-19.5	83,465	1,667	2,108
Other fish specialties.	13	48	175,856	8,441	8,973
Total fish	-	-	31,801,115	743,344	1,193,507
Shellfish:					
Clams and clam products: (2)					
Whole	4	15	4,825	72	231
Minced	19	15	1,077,570	16,164	35,334
Chowder	15	30	2,168,551	65,057	44,201
Juice	12	30	588,293	17,649	5,458
Total (1).	24	-	3,839,239	98,942	85,224
Specialties	11	48	176,077	8,452	10,526
Crabs:					
Natural	12	19.5	124,205	2,422	12,723
Specialties	2	48	(3)	(3)	(3)
Lobster meat and specialties.	6	48	18,430	885	1,240
Oysters:					
Natural (4)	4	7	116,233	814	2,222
Specialties	6	48	206,871	9,930	5,865
Shrimp:					
Natural (4)	18	6.75	1,175,691	7,936	45,008
Specialties	5	48	21,040	1,010	859
Squid	6	48	159,965	7,678	2,845
Conch meat and chowder.	3	48	12,177	584	192
Other shellfish specialties.	7	48	27,213	1,306	1,035
Total shellfish	-	-	5,877,141	139,959	167,739
Total for human consumption	-	-	37,678,256	883,303	1,361,246
For animal food and bait:					
Animal food	27	48	8,478,335	406,960	130,009
Salmon eggs and herring minnows for bait. . . .	5	48	5,405	259	2,039
Total for animal food and bait	32	48	8,483,740	407,219	132,048
Grand total (1)	192	-	46,161,996	1,290,522	1,493,294

(1) Exclusive of duplication. (2) "Cut out" or "drained" weight of can contents is given for whole or minced clams, and net contents for other clam products. (3) Included with other shellfish specialties. (4) Drained weight.

Note:--Data for Alaska are preliminary. Data for other States are final.

VALUE OF PRODUCTION BY STATE AND PLANT COUNT, 1982

State and number of plants	Standard cases	Thousand dollars
Maine (14) Massachusetts (1), and Connecticut (1)	1,622,478	60,583
New York (4)	99,286	4,663
New Jersey (14)	1,726,509	48,377
Pennsylvania (2) and Delaware (2)	1,938,107	42,491
Virginia (3)	133,439	1,816
North Carolina (3)	30,845	2,628
South Carolina (2) and Florida East Coast (1)	100,238	4,445
Florida West Coast (1) and Mississippi (5)	3,187,915	32,776
Louisiana (9)	657,617	24,870
Alaska (70)	2,909,900	212,118
California (13)	15,338,521	429,390
Oregon (6)	36,144	1,461
Washington (28)	372,883	17,073
Kansas (1), Michigan (2), Ohio (1), and Wisconsin (1)	202,623	2,638
American Samoa (2), Hawaii (1), and Puerto Rico (5)	17,805,491	607,965
Total (192)	46,161,996	1,493,294

FACTORS USED TO CONVERT STANDARD CASES TO POUNDS

Products	1941	1942	1943	1944 to 1947	1948 to 1951
-----Pounds per case-----					
Sardines:					
Maine	25	20.3	20.3	20.3	20.3
Pacific	48	45	45	45	45
Tuna and tunalike fishes:					
Solid	21	22.5	22.5	45	45
Chunks	-	-	-	(1)	(1)
Flakes	21	18	18	18	18
Mackerel	48	45	45	45	45
Alewives	48	48	45	45	45
Anchovies	48	48	48	48	48
Shad	48	48	48	45	45
Fish flakes	48	48	48	42	42
Oysters	15	15	22.5	22.5	14
Shrimp, wet pack	17.25	21	21	21	15
Clam products:					
Whole and minced	15	15	15	15	15
Juice, chowder, broth, et. al.	30	30	30	30	30
Crabs	39	39	39	39	19.5
All other	48	48	48	48	48
Products	1952	1953 to 1957	1958 to 1964	1965 to 1969	1970 to 1982
-----Pounds per case-----					
Sardines:					
Maine	20.3	20.3	23.4	23.4	23.4
Pacific	45	45	45	45	45
Tuna and tunalike fishes:					
Solid	21	21	21	21	21
Chunks	19.5	19.5	19.5	19.5	19.5
Flakes	18	18	18	18	18
Mackerel	45	45	45	45	45
Alewives	45	45	45	45	45
Anchovies	48	31.25	31.25	31.25	31.25
Shad	45	45	45	45	45
Fish flakes	42	48	48	48	48
Oysters	14	14	14	14	7
Shrimp, wet pack	15	15	15	6.75	6.75
Clam products:					
Whole and minced	15	15	15	15	15
Juice, chowder, broth, et. al.	30	30	30	30	30
Crabs	19.5	19.5	19.5	19.5	19.5
All other	48	48	48	48	48

(1) Prior to 1952 chunk pack tuna was included with the flake pack.

Note:--The factors listed above were used in converting standard cases reported in the "Canned Fishery Products" bulletins for the years indicated.

PACK OF SALMON, BY STATES, 1982

Species	Alaska		Washington	
	Standard cases	Thousand dollars	Standard cases	Thousand dollars
Chinook or king	2,800	308	335	42
Chum or keta	193,200	10,626	562	38
Pink	1,837,800	132,322	18,400	1,337
Red or sockeye	364,300	43,716	47,576	6,412
Silver or coho	36,600	3,587	4,824	577
Steelhead	-	-	(1)	(1)
Total	2,434,700	190,559	71,697	8,406

Species	Oregon		Total	
	Standard cases	Thousand dollars	Standard cases	Thousand dollars
Chinook or king	190	26	3,325	376
Chum or keta	-	-	193,762	10,664
Pink	-	-	1,856,200	133,659
Red or sockeye	-	-	411,876	50,128
Silver or coho	200	22	41,624	4,186
Steelhead	-	-	(1)	(1)
Total	390	48	2,506,787	199,013

(1) Included with silver or coho.

Note:—"Standard cases" represent the various size cases converted to the equivalent of 48 cans to the case, each can containing 16 oz net weight. Salmon were canned in 60 plants in Alaska, 18 plants in Washington, and 4 plants in Oregon.

PACK OF MISCELLANEOUS SALMON PRODUCTS, 1982

Product	Standard cases	Thousand dollars	State and number of plants
Smoked, pastes, smoked pastes, and in sauces	2,491	688	Alaska (7), Washington (8), Oregon (4), and Michigan (1)

Note:—"Standard cases" represent the various size cases converted to the equivalent of 48 cans to the case, each can containing 16 oz net weight.

PACK OF TUNA, 1982

Species	Continental United States		Hawaii, American Samoa, and Puerto Rico		Total	
	Standard cases	Thousand dollars	Standard cases	Thousand dollars	Standard cases	Thousand dollars
Albacore:						
Solid pack	786,777	37,493	4,429,611	205,839	5,216,388	243,332
Chunks	129,614	5,603	605,246	24,709	734,860	30,312
Flakes and grated	37,969	1,008	31,521	748	69,490	1,756
Total	954,360	44,104	5,066,378	231,296	6,020,738	275,400
Lightmeat:						
Solid pack	309,828	11,762	1,496,710	55,575	1,806,538	67,337
Chunks	9,036,033	276,375	10,136,766	297,286	19,172,799	573,661
Flakes and grated	81,546	1,915	5,820	133	87,366	2,048
Total	9,427,407	290,052	11,639,296	352,994	21,066,703	643,046
Grand total	10,381,767	334,156	16,705,674	584,290	27,087,441	918,446

Note:—"Standard cases" represent the various size cases converted to the equivalent of 48 No. ½ tuna cans to the case, each can containing 7 oz net weight of solid pack, 6½ oz net weight of chunks, and 6 oz net weight of flakes and grated. The pack of dietetic tuna is included in the totals. Tuna were canned in 6 plants in California, 5 plants in Puerto Rico, 3 plants each in Washington and Oregon, 2 plants in American Samoa and 1 plant in Hawaii.

PACK OF MISCELLANEOUS TUNA PRODUCTS, 1982

Product	Standard cases	Thousand dollars	State and number of plants
Smoked, spreads, in sauces, and with noodles	28,090	1,478	California (1), Maine (1), Oregon (1), Pennsylvania (1), Puerto Rico (1), and Washington (4)

Note:—"Standard cases" represent the various size cases converted to the equivalent of 48 cans to the case, each can containing 16 oz net weight.

PACK OF TUNALIKE FISH, 1982

Specie	Standard cases	Thousand dollars	State and number of plants
Bonito, solid pack, chunks	83,465	2,108	California (3)

Note:—"Standard cases" represent the equivalent of 48 No. ½ tuna cans to the case, each can containing 7 oz net weight of solid pack, 6½ oz net weight of chunks, and 6 oz net weight of flakes and grated.

PACK OF MAINE SARDINES, 1982

Style of pack	Standard cases	Thousand dollars	State and number of plants
In soya oil	559,745	20,784	} Maine (12)
In tomato sauce	22,081	696	
In mustard sauce, and in hot sauce	87,402	3,140	
Total	669,228	24,620	

Note:--"Standard cases" represent the various size cases converted to the uniform basis of 100 No. ¼ oil cans (3½ oz net) to the case.

PACK OF MISCELLANEOUS HERRING PRODUCTS, 1982

Product	Standard cases	Thousand dollars	State and number of plants
Spreads and fish	89,410	7,146	Maine (9)

Note:--"Standard cases" represent the various size cases converted to the equivalent of 48 cans to the case, each can containing 16 oz net weight.

PACK OF JACK AND PACIFIC MACKEREL, 1982

Pack	Standard cases	Thousand dollars	State and number of plants
Natural	871,500	14,919	California (4)

Note:--"Standard cases" represent the various size cases converted to the equivalent of 48 cans to the case, each can containing 15 oz net weight.

PACK OF ANIMAL FOOD FROM FISHERY PRODUCTS, 1982

Species	Standard cases	Thousand dollars	State and number of plants
Mackerel	763,796	14,102	California (3)
Tuna	3,540,684	71,783	American Samoa (2), California (8), Hawaii (1), and Puerto Rico (5)
Total, exclusive of duplication (15)	4,304,480	85,885	
Other (12)	4,173,855	44,124	California (3), Kansas (1), Michigan (1), Mississippi (2), New Jersey (1), Ohio (1), Pennsylvania (1), Virginia (1), and Washington (1)
Grand total, exclusive of duplication (27).	8,478,335	130,009	

Note:--Each standard case contains 10 or more pounds of fish. An additional pack of 2,409,892 standard cases valued at \$26,179,100 had less than 10 lb of fish per case, and is not included in the above pack. "Standard cases" represent the various size cases converted to the equivalent of 48 cans to the case, each can containing 16 oz net weight.

PACK OF FISH ROE, CAVIAR, SALMON EGGS, AND HERRING MINNOWS
FOR BAIT, 1982

Product and number of plants	Standard cases	Thousand dollars	State and number of plants
Alewife roe (2), lumpfish roe (1), salmon roe (1), shad roe (1), sturgeon roe (1), and whitefish roe (2)	8,870	1,673	New York (1), North Carolina (2), Oregon (1), and Wisconsin (1)
Total, exclusive of duplication (5)	8,870	1,673	
Salmon eggs (4) and herring minnows for bait (1)	5,405	2,039	Washington (5)
Grand total, exclusive of duplication (10) . .	14,275	3,712	

Note:—"Standard cases" represent the various size cases converted to the equivalent of 48 cans to the case, each can containing 16 oz net weight.

PACK OF MISCELLANEOUS FISHERY PRODUCTS, 1982

Product	Standard cases	Thousand dollars	State and number of plants
Gefiltefish	277,631	14,334	New Jersey (3) and New York (1)
Sturgeon, smoked	346	109	Oregon (3) and Washington (6)
Alewives, anchovies, cod, haddock, shad, trout, wahoo, and unclassified fish, all the foregoing in various styles including, natural packs, cakes, chowders, dips, pastes, smoked, and in sauces.	175,856	8,973	American Samoa (2), Maine (2), Michigan (1), New Jersey (2), Oregon (1), Pennsylvania (1), Washington (2), and Virginia (2)
Total	453,833	23,416	

Note:—"Standard cases" represent the various size cases converted to the equivalent of 48 cans to the case, each can containing 16 oz net weight.

PACK OF CLAMS AND CLAM PRODUCTS, 1982

Species	Whole and minced		Chowder and juice		Total	
	Standard cases	Thousand dollars	Standard cases	Thousand dollars	Standard cases	Thousand dollars
Hard, ocean quahog, razor, soft, and surf	1,082,395	35,565	2,756,844	49,659	3,839,239	85,224

Note:--"Standard cases" represent the various size cases converted to the equivalent of 48 No. 1 picnic cans, each can of whole or minced clams containing 5 oz of meat, drained weight, and each can of chowder, juice, broth, nectar, 10 oz net contents. The pack of clams in the shell is not included. Clams were canned in 6 plants in Washington, 5 plants in New Jersey, 2 plants each in Delaware, Maine, New York, and Virginia 1 plant each in Connecticut, Massachusetts, Oregon, Pennsylvania, and South Carolina.

PACK OF CLAM PRODUCTS, BY TYPE OF PACK, 1982

Product and number of plants	Standard cases	Thousand pounds	Thousand dollars
Whole (4)	4,825	72	231
Minced (19)	1,077,570	16,164	35,334
Chowder (15)	2,168,551	65,057	44,201
Juice (12)	588,293	17,649	5,458
Total, exclusive of duplication (24) . .	3,839,239	98,942	85,224

PACK OF MISCELLANEOUS CLAM PRODUCTS, 1982

Product	Standard cases	Thousand dollars	State and number of plants
Bisques, bases, dips, fritters, in shell, in sauces, smoked, and stews.	176,077	10,526	Connecticut (1), Delaware (2), Maine (1), New Jersey (4), New York (1), Oregon (1), and Washington (1)

Note:--"Standard cases" represent the various size cases converted to the equivalent of 48 cans to the case, each can containing 16 oz net weight.

PACK OF CRAB MEAT, 1982

Species	Standard cases	Thousand dollars	State and number of plants
Blue and rock (4)	66,667	5,739	Maine (1), Mississippi (1), North Carolina (1), and South Carolina (1)
Dungeness (3)	2,538	234	Oregon (1) and Washington (2)
King and snow (6)	55,000	6,750	Alaska (6)
Total, exclusive of duplication (12)	124,205	12,723	

Note:--"Standard cases" represent the various size cases converted to the equivalent of 48 cans to the case, each can containing 6½ oz net weight.

PACK OF CRAB SPECIALTIES, 1982

Less than 3 firms packed crab specialties in 1982

NATURAL PACK OF OYSTERS, 1982

State and number of plants	Standard cases	Thousand dollars
Louisiana (2), South Carolina (1), and Washington (1)	116,233	2,222

Note:--"Standard cases" represent the various cases converted to the equivalent of 24 cans to the case, each can containing 4-2/3 oz drained weight.

PACK OF OYSTER SPECIALTIES, 1982

Product	Standard cases	Thousand dollars	State and number of plants
Stews, stew bases, and smoked	206,871	5,865	New Jersey (1), South Carolina (1), and Washington (4)

Note:--"Standard cases" represent the various size cases converted to the equivalent of 48 cans to the case, each can containing 16 oz net weight.

NATURAL PACK OF SHRIMP, 1982

State and number of plants	Standard cases	Thousand dollars
Louisiana (9)	580,111	23,186
Mississippi (3)	124,632	5,327
Total (12)	704,743	28,513
Oregon (1) and Washington (2)	50,948	1,735
Alaska (3)	420,000	14,760
Total (6)	470,948	16,495
Grand total (18)	1,175,691	45,008

Note:--"Standard cases" represent the various size cases converted to the equivalent of 24 cans to the case, each can containing 4 1/2 oz of shrimp meats drained weight.

PACK OF MISCELLANEOUS SHRIMP PRODUCTS, 1982

Product	Standard cases	Thousand dollars	State and number of plants
Dips, paste, pickled, and soup	21,040	859	Delaware (1), Maine (1), Michigan (1), New Jersey (1), and Oregon (1)

Note:--"Standard cases" represent the various size cases converted to the equivalent of 48 cans to the case, each can containing 16 oz net weight.

PACK OF MISCELLANEOUS SHELLFISH PRODUCTS, 1982

Product	Standard cases	Thousand dollars	State and number of plants
American lobster, bisques, deviled, dips, meats, newburgs, pastes, and spreads, and spiny lobster in sauce.	18,430	1,240	Connecticut (1), Maine (2), New Jersey (2), and Michigan (1)
Conch meat and chowders.	12,177	192	New Jersey (1), Florida East Coast (1), and Florida West Coast (1)
Squid	159,965	2,845	California (5) and New Jersey (1)
Mussels, turtles, crab, and unclassified shellfish, the foregoing in various styles including natural packs, bisques, deviled, dips, chowders, soups, and in sauces.	27,213	1,035	Connecticut (1), Florida West Coast (1), Louisiana (1), Maine (2), and New Jersey (2)
Total	217,785	5,312	

Note:--"Standard cases" represent the various size cases converted to the equivalent of 48 cans to the case, each can containing 16 oz net weight.

PACK OF CANNED FISHERY PRODUCTS, 1969-1982

Year	Alewives		Mackerel		Sardines, Maine	
	Standard cases	Thousand dollars	Standard cases	Thousand dollars	Standard cases	Thousand dollars
1969.....	62,260	368	385,646	3,317	1,042,806	11,512
1970.....	22,538	134	188,609	1,534	806,501	11,227
1971.....	45,497	378	367,043	3,076	950,821	10,856
1972.....	12,734	121	305,847	2,618	1,561,535	23,877
1973.....	1,635	18	63,365	540	995,056	15,688
1974.....	7,560	138	83,975	921	920,511	21,745
1975.....	4,390	86	216,411	2,614	1,111,468	24,917
1976.....	4,315	98	147,629	2,085	1,067,146	24,478
1977.....	(1)	(1)	686,445	11,869	1,004,108	27,205
1978.....	(1)	(1)	722,133	9,751	1,127,171	35,641
1979.....	(1)	(1)	582,026	7,690	1,297,830	44,818
1980.....	(1)	(1)	849,822	11,512	846,533	31,554
1981.....	(1)	(1)	802,906	12,360	1,630,949	54,890
1982.....	(1)	(1)	871,500	14,919	669,228	24,620

Year	Washington and Oregon		Salmon Alaska		Total Salmon	
	Standard cases	Thousand dollars	Standard cases	Thousand dollars	Standard cases	Thousand dollars
1969.....	267,753	12,551	2,283,168	77,735	2,550,921	90,286
1970.....	257,692	14,096	3,564,508	124,577	3,822,200	138,673
1971.....	610,398	29,841	2,899,011	107,981	3,509,409	137,822
1972.....	298,678	15,115	1,635,867	72,255	1,934,545	87,370
1973.....	285,502	24,688	1,209,755	86,417	1,495,257	111,105
1974.....	485,718	38,145	1,343,254	98,860	1,828,972	137,005
1975.....	171,330	14,990	1,383,900	95,424	1,555,230	110,414
1976.....	141,368	14,573	2,517,202	190,745	2,658,570	205,318
1977.....	232,459	20,874	2,594,391	188,762	2,826,850	209,636
1978.....	13,686	1,293	3,081,875	220,367	3,095,561	221,660
1979.....	51,492	5,386	3,048,971	253,068	3,100,463	258,454
1980.....	35,228	5,149	4,131,500	370,557	4,166,728	375,706
1981.....	166,607	17,336	4,444,582	405,322	4,611,189	422,658
1982.....	72,087	8,454	2,434,700	190,559	2,506,787	199,013

Year	Tuna		Tunalike fishes		Edible roe and caviar	
	Standard cases	Thousand dollars	Standard cases	Thousand dollars	Standard cases	Thousand dollars
1969.....	20,097,639	297,456	252,548	2,180	37,997	4,239
1970.....	22,063,340	380,574	139,541	1,450	23,457	4,096
1971.....	22,204,973	413,236	285,027	3,316	32,660	4,604
1972.....	31,210,102	633,313	336,795	4,150	26,587	2,974
1973.....	32,105,591	704,753	534,309	7,003	186,890	7,183
1974.....	33,363,933	823,893	393,522	5,726	22,202	3,893
1975.....	26,801,651	652,635	660,537	10,067	29,504	3,892
1976.....	30,304,489	853,463	163,355	2,941	17,344	3,515
1977.....	27,660,237	906,614	473,298	10,635	17,939	6,038
1978.....	35,635,201	1,273,260	180,429	3,737	20,638	4,139
1979.....	31,402,481	1,103,849	75,533	1,574	17,006	4,424
1980.....	30,508,722	1,143,527	224,193	5,476	13,979	3,832
1981.....	31,754,128	1,180,138	271,796	6,397	6,880	1,469
1982.....	27,087,441	918,446	83,465	2,108	8,870	1,673

(Continued on next page)

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
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PACK OF CANNED FISHERY PRODUCTS, 1969-1982 - Continued

Year	Whole and minced		Clam products Chowder, juice, broth, et al.		Total	
	Standard cases	Thousand dollars	Standard cases	Thousand dollars	Standard cases	Thousand dollars
1969.....	432,113	6,957	1,881,363	15,088	2,313,476	22,045
1970.....	580,239	10,242	1,892,974	15,419	2,473,213	25,661
1971.....	634,451	9,796	2,048,701	16,548	2,683,152	26,344
1972.....	703,819	9,274	2,161,426	17,989	2,865,245	27,263
1973.....	924,748	14,725	2,563,287	23,378	3,488,035	38,103
1974.....	886,658	16,949	2,499,206	26,157	3,385,864	43,106
1975.....	903,758	17,855	2,080,526	23,918	2,984,284	41,773
1976.....	517,180	14,815	1,888,859	24,483	2,406,039	39,298
1977.....	762,710	26,269	2,068,950	38,252	2,831,660	64,521
1978.....	659,999	25,383	1,963,146	34,807	2,623,145	60,190
1979.....	728,514	25,514	2,055,253	35,602	2,783,767	61,116
1980.....	730,072	27,448	2,216,406	38,902	2,946,478	66,350
1981.....	600,656	27,862	2,622,176	44,586	3,222,832	72,448
1982.....	1,082,395	35,565	2,756,844	49,659	3,839,239	85,224

Year	Crabmeat, natural		Oysters, natural		Shrimp, natural	
	Standard cases	Thousand dollars	Standard cases	Thousand dollars	Standard cases	Thousand dollars
1969.....	257,784	14,331	285,696	2,164	3,071,021	27,730
1970.....	261,410	10,489	271,968	2,102	3,722,253	37,277
1971.....	164,770	7,029	483,812	4,814	3,310,385	33,648
1972.....	128,855	7,008	399,679	4,292	3,525,188	38,713
1973.....	190,949	13,833	294,054	3,688	3,737,424	55,234
1974.....	223,472	13,564	282,676	3,266	3,277,192	44,370
1975.....	168,369	10,078	343,084	4,065	1,838,062	27,650
1976.....	182,283	13,331	165,577	2,548	2,966,095	48,815
1977.....	237,019	19,617	146,735	2,687	3,699,824	73,203
1978.....	184,236	19,368	85,652	1,337	2,400,179	49,693
1979.....	151,714	17,796	64,351	1,023	1,647,140	53,713
1980.....	200,836	19,285	(1)	(1)	2,265,048	80,265
1981.....	175,951	18,560	63,059	1,187	1,828,396	58,922
1982.....	124,205	12,723	116,233	2,222	1,175,691	45,008

Year	Other edible fish and shellfish	Animal food		Eggs for bait		Total
	Thousand dollars	Standard cases	Thousand dollars	Standard cases	--Thousand dollars--	
1969.....	17,431	9,402,632	80,618	12,907	1,856	575,533
1970.....	19,407	11,243,806	105,232	21,040	3,904	741,760
1971.....	21,115	10,666,923	101,511	12,009	2,848	770,597
1972.....	21,796	13,877,134	139,180	10,336	2,247	994,922
1973.....	39,154	14,496,561	167,308	10,884	3,550	1,167,160
1974.....	29,789	12,297,427	174,614	10,354	3,817	1,305,847
1975.....	26,623	12,149,662	147,826	11,805	4,427	1,067,067
1976.....	35,848	13,751,919	195,839	11,813	2,116	1,429,693
1977.....	40,972	10,672,247	165,686	(2) 8,641	(2) 4,469	1,543,152
1978.....	40,389	11,227,312	162,380	(2) 6,738	(2) 2,579	1,884,124
1979.....	38,558	9,988,203	146,828	(2) 6,882	(2) 3,488	1,743,331
1980.....	44,441	10,548,132	143,959	(2) 10,557	(2) 1,749	1,927,656
1981.....	49,332	8,498,327	132,110	(2) 17,985	(2) 2,452	2,012,923
1982.....	55,290	8,478,335	130,009	(2) 5,405	(2) 2,039	1,493,294

(1) Included with other edible fish and shellfish. (2) Includes a small production of minnows for bait.